

CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

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COUNTRY	East Germany	REPORT	
SUBJECT	1. Elektrochemisches Kombinat, Bitterfeld New Installations Planned for 1953-1955	DATE DISTR.	18 May 1954
	2. Elektrochemisches Kombinat, Bitterfeld Capital Investment Projects for 1952	NO. OF PAGES	8
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THE SOURCE EVALUATIONS IN THIS REPORT ARE DEFINITIVE.
THE APPRAISAL OF CONTENT IS TENTATIVE.
(FOR KEY SEE REVERSE)

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Elektrochemisches Kombinat, Bitterfeld, List of Projects for New Installations
(valued at over 500,000 DME) for 1953. 1954. 1955.

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No.	Designation	Capacity ¹ (2)	Estimated Costs (in 1,000 DME)	Work Projects (in 1,000 DME)						
				Total (4)	1953 (5)	1954 (6)	1955 (7)	1952 (8)	1953 (9)	1954 (10)
1	Caustic soda chlorine plant III, south. 93 mercury cells, auxiliary apparatus, and rectifier installation, 800 volts, 20,000 amperes	15,000 tons of NaOH per year	14,000	11,000	3,000	-	100	200	-	
2	Chlorate, conversion of systems 3 and 4 to graphite anodes	8,000 tons of KClO ₃ per year 22,000/30,000 tons per year	2,400	1,400	1,000	-	30	20	-	
3	Potassium bichromate, conversion to contin- uous absorption, installation of a CO ₂ concentration installation, etc.	1,800 tons per year 4,800/6,600 tons per year	700	500	200	-	10	10	-	

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25 YEAR RE-REVIEW

STATE	x	ARMY	x	NAVY	x	AIR	x	FBI		AEC			
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(Note: Washington Distribution Indicated By "X"; Field Distribution By "#")

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
4	Graphite, raising the load by 15,000 amperes to 50,000 amperes, by moving converter from aluminum plant I, and enlarging the rectifier building toward the east	2,100 tons per year 2900/5,000, electrical industry; 3,400 tons per year 9,600/13,000, metallurgical industry	1,200	800	400	-	20	20	-
5	Titanium dioxide, doubling the installation; magnetite electrodes and new construction	2,500 tons per year 2,500/5,000 tons per year	3,500	1,000	2,500	-	20	70	-
6	Crude nitric acid, three new combustion furnaces, five absorption towers	8,600 tons per year 21,000/29,600 tons per year	8,000	2,000	6,000	-	20	140	-
7	Tricresyl phosphate, completion of conversion to continuous process	3,000 tons per year 6,000/9,000 tons per year	600	500	100	-	10	10	-
8	Hexa products, including pentachlorophenol; transfer of enlarged installation to North Plant and installation for processing residues for pentachlorophenol	170 tons per year 10/90 tons per year in 1953 90/180 tons per year in 1954	3,000	1,200	1,800	-	20	50	20
9	Methylene chloride, enlarging installation in present building, also increasing electric power supply	2,400 tons per year 1,200/3,600 tons per year	2,900	1,600	1,300	-	30	30	-
10	Vinidur tubes, in 1953: new building with four small presses and storage battery station, also eight mixing mills, power supply; in 1954: two large presses and three mixing mills, power supply	500 tons per year in 1953 300 tons per year in 1954	2,800	1,800	1,000	-	20	30	10
11	Vinidur boxes, enlargement of building 296 and social activities rooms, calender with 2,000-millimeter rolling width and four mixing mills in building 282	4.2 million, 3 million/ 7.2 million	1,500	1,300	200	-	10	20	-

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
12	Special foil, calender and four mixing mills	5 million DM	1,250	-	1,000	250	-	15	10
13	Caustic potash, in North Plant, rebuild- ing of decomposing unit I with 160 new cells for 26,000 amperes with output equivalent to units I and II, enlargement of vaporizer I, new installation for dissolving KOI in decomposing unit II; no increase in DC supply	20,000 tons of KOH per year (figure illegible- may be 30,000)	9,500	-	8,000	1,500	-	200	50
14	Tungstic acid plant, North (industrial)	300 tons per year	2,200	-	2,000	200	-	30	20
15	Ferrotungsten, third electric furnace and building wing	500 tons per year 500/1,000 tons per year	600	200	400	-	5	10	5
16	Aluminum, 1953: Shop 3 - 144 furnaces, one rectifier installation, 900 volts, 30,000 amperes, in present building	10,000 tons per year 15,000/25,000 tons per year	17,000 of which, 3,000	12,000	2,000	-	50	200	100
17	Aluminum, 1954/56: Shop 4, 144 furnaces, one rectifier installation, 900 volts, 30,000 amperes, in new building; foundry; shops 1 and 2, reconstruction, otherwise same as shop 4	20,000 tons per year 25,000/45,000 tons per year Of this, 10,000 tons after 1 January 1955	37,000	-	17,000	20,000	-	200	(100 each for 1955 and 1956)
18	Magnesium, dressing installation, 64 baths, rectifier installation, 500 volts, 24,000 amperes, with reserve (6,000 amperes), in new building	4,500 tons per year	20,000	18,000	2,000	-	100	300	200
19	Rolling stock, 120 tank cars for KOH, NaOH, and magnesium solution, two locomotives, two railroad cranes, 20 dump carts, 10 electric cars	-	4,500	2,100	2,400	-	10	20	-

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20	Expansion of rail network, 2,000 meters of new rails and clearing of railroad at North Plant	-	900	400	500	-	10	10	-
21	Expansion of water supply system, connection to Elbause, with 5,000-cubic-meter reserve reservoir, four cooling towers	-	2,200	1,000	1,200	-	20	40	-
22	Expansion of drainage network, laying of pipes in present open ditches, settling basins, etc.	-	800	400	400	-	15	15	-
23	Expansion of general power supply network, 30,000-volt network, two new junction points, etc.	-	4,000	2,000	1,000	1,000	50	50	50
24	Storerooms for chemicals, new building, 6,000 square meters, with cellar	-	1,700	700	1,000	-	10	30	-
25	Expansion of steam and gas network	-	800	400	400	-	10	20	-
26	Central scrubbing installation for generator gas	100,000 cubic meters per day	600	500	100	-	10	20	-
27	Expansion of South power plant, reconstruction of 10 boiler-firing installations, 20-atmosphere boilers, reconstruction of turbine 1a, 6 megawatts; Benson boiler, 60 tons of steam; turbine 15, 25 megawatts	20 mw.	7,600	1,500	3,000	3,100	50	100	100
28	Expansion of North power plant, two 30-atmosphere boilers, 30 tons per hour, and one back-pressure turbine	4 mw.	3,500	1,500	2,000	-	30	70	-
29	Reconstruction of Thalheim power plant	80 mw.	50,000	15,000	30,000	5,000	200	400	400

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	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Totals:	204,750	78,000	91,900	31,050	860	2,330	1,165
	(minus 3,000 which was spent in 1952)						

1. Comment: Although the title of this column in the original is "Capacity", it appears that in most, if not all, cases the entries show capacity increase. When the entry gives three figures, the latter two separated by "/", the first figure apparently shows the increase in capacity, the second the present capacity, and the third the final capacity.

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Elektrochemisches Kombinat, Bitterfeld, Index of Titles of Capital Investment Projects
for 1952 (in 1,000 DME)

	<u>Cost of Entire Project</u>	<u>1952 Plan</u>
1. Remaining work on reconstruction of the plant for foundry aluminum (first stage)	15,000	600
2. Reconstruction of the plant for foundry aluminum (second stage)	17,000	3,000
3. Setting up a 30-ton steam boiler in the North Plant, with complete reconstruction of coaling and ash removal installations	2,860	500
4. Expansion of the PC installation to a capacity of 120 tons per month	1,050	1,050
5. Remaining work on setting up the four mixing mills and the four-roller calender in the plastics plant	1,027	130
6. Setting up the back-pressure turbine in the North Plant	800*	45
7. Erection of the methylene chloride plant	845	845
8. Expansion of the Gesarol and chloral installation to a capacity of 280 tons per month	690	690
9. Expansion of the potassium and sodium chlorate plants (System I)	660	119
10. Erection of the ferrotungsten and ferrovanadium plant	1,450	1,450
11. Replacement of the magnetite electrodes with graphite electrodes in the chlorate plant (System II)	600	600
12. Remaining work on the pressure-raising station for the water supply system which used water from the Mulde River	561	446
13. Erection of the ferrochrome plant	410	410
14. Erection of the ferromolybdenum and ferrotitanium plant	254	254
15. Remaining work on expanding the titanium dioxide plant to a capacity of 140 tons per month	475	419
16. Erection of a ventilator cooling tower for the PC plant, with a capacity of 1,100 cubic meters per hour	300	300
17. Expansion of the PC plant (setting up the vacuum dryer)	350	62
18. Expansion of the Siliron plant, from a capacity of 24,000 tons per year to a capacity of 36,000 tons per year	285	285

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	<u>Cost of Entire Project</u>	<u>1952 Plan</u>
19. Erection of an Igelit-lined iron tower for the crude nitric acid plant	250	250
20. Expansion of the tricresyl phosphate plant, from a capacity of 4,200 tons per year to 5,400 tons per year	230	230
21. Chemical apparatus and technological equipment for the inorganic plants	400	400
22. Chemical apparatus and technological equipment for the organic plants	354	354
23. Rebuilding of the chromic oxide plant	200	200
24. Erection of the installation for the production of special iron powder for Pupin coils	190	190
25. Expansion of the oxalic acid plant, from a capacity of 1,650 tons per year to 2,000 tons per year	180	180
26. 25-megavolt-ampere transformer for the power plant	150	150
27. Expansion of the barium carbonate plant	150	150
28. Expansion of the plant for magnetic alloys, from a capacity of 200 tons per year to 360 tons per year	130	130
29. Remaining work on setting up a three-color printing press and design-stamping unit for plastic sheet	65	13
30. Fire-protection measures for various plants	250	250
31. Replacement of the flat cathodes by corrugated sheets in the electrolysis unit of the caustic soda plant in the North Plant (System I)	90	90
32. Remaining work on the expansion of the graphite electrode plant	50	12
33. Erection of the montan wax plant	80	80
34. Expansion of the light metal extrusion press plant	70	62
35. Rebuilding of the red phosphorus plant	60	60
36. Erection of the special Igelit plant for the production of cable material	50	50
37. Control and testing equipment	25	25
38. Stabilizers for phenoxypropylene oxide	15	15
39. Power plant:		
a. Reconstruction of the firing system of six 20-atmosphere boilers, at 150,000 DM each	900	900

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	<u>Cost of Entire Project</u>	<u>1952 Plan</u>	
b. Reconstruction of the firing system of two 20-atmosphere low-pressure boilers in North Plant, at 180,000 DM each	360	360	
c. Remaining work on first stage of construction of the protective equipment for the generator	93	10	
d. Putting the replacement oil switches into operation in the 5-kilovolt switch installation	40	-	
e. Reconstruction of 20-atmosphere boiler No. 18 in boiler house 2	200	200	
f. Erection of an air-conditioning unit with a capacity of 1,000 cubic meters per hour	175	175	
g. Modernization of five switch cells in switch house 1	90	90	
h. Connecting machine no. 11 with the 5-kilovolt line	55	55	
i. Remaining work on equipment for the high-frequency telemeter installation	50	45	
k. Reconstruction of the ventilator in boiler house 4	30	30	
l. Second stage of construction on the new protective equipment for the generator	30	30	
m. Modernization of the high-frequency telephone and extension of the telephone network	30*	30*	
n. Setting up four switch cells in switch house 2	12	12	
o. Structural changes in the fitters' shop	11	11	
p. New connections in switch house 2/4	10	10	
q. Installation for the impregnation of wood for refrigeration units	8	8	
r. Equipment for the load-dispatcher's office	25	25	
40. Work protection and safety technology	200	200	
41. Purification station for potassium chloride	140	140	
42. Equipment for the plant laboratory and research laboratory	152	152	
43. Remaining work on the assembly of the mill for PCU coagulate	21	6	
44. Two grab cranes for unloading salt at the North Plant	150	150	
Total, as approved by Pleshchenko	50,388	16,737	25X1
	Item 6	-37	
	Item 39m	-20	
Total	50,331	-20	
	50,331	16,717	

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